

Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

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Claims 1-16 (Canceled)

17. (Currently Amended) A rotation body for a printing machine, comprising:
a stator including at least one stator winding, the stator having a support end and a free end; and
a rotor positioned about and enclosing the stator free end, the rotor including at least one permanent magnet and positioned for rotation relative to the stator, the rotor extending from a first bearing to a second, spaced apart bearing and the at least one permanent magnet provided over substantially all of the area along the longitudinal axis of the rotor between the first and second bearings,
wherein current flowing through the stator winding interacts with the at least one permanent magnet and generates a torque acting on the rotor.

18. (Previously Presented) The rotation body according to claim 17, wherein at least two stator windings are provided at axially offset points on the stator.

19. (Previously Presented) The rotation body according to claim 17, wherein the at least one stator winding generates a magnetic field for driving the rotor over at least half of an axial length of the rotor.

20. (Previously Presented) The rotation body according to claim 17, wherein the at least one stator winding is distributed over approximately an entire axial length of the stator.

21. (Previously Presented) The rotation body according to claim 17, wherein the at least one stator winding is provided on an outer surface of the stator.

22. (Previously Presented) The rotation body according to claim 17, wherein the rotor is a cylinder shell.

23. (Previously Presented) The rotation body according to claim 17, wherein the rotor is a cylinder body comprising a blind hole.

24. (Previously Presented) The rotation body according to claim 17, wherein the rotor is mounted on the stator by at least one of the bearings extending between the rotor and the stator, at least one of the bearings extending between the rotor and an external retainer, or at least the first of the bearings extending between the rotor and the stator and at least the second of the bearings extending between the rotor and the external retainer.

25. (Previously Presented) The rotation body according to claim 17, further comprising a cylinder body or roller body which is supported on the rotor and fixed thereto by a non-positive frictional lock, a positive lock or by a combination of a non-positive frictional lock and a positive lock.

26. (Previously Presented) The rotation body according to claim 17, further comprising a cooling system for cooling at least a partial area of the stator.

27. (Previously Presented) The rotation body according to claim 17, wherein the at least one permanent magnet is annular, rod-shaped or a combination of annular and-rod shaped.

28. (Previously Presented) The rotation body according to claim 17, wherein the at least one permanent magnet is provided on a rotor casing inner surface.

29. (Previously Presented) The rotation body according to claim 17, wherein the rotor supports or defines a deflecting cylinder, a drawing roller, a ductor, a central cylinder, a steel cylinder, a printing blanket cylinder, a form cylinder, a plate cylinder, a rubber cylinder, a knife cylinder, a collecting cylinder, a cutting cylinder, an inking roller, or dampening roller.

30. (Previously Presented) The rotation body according to claim 17, wherein the rotor is used in a folding apparatus or in a reel changer.

31. (Previously Presented) A printing machine drive comprising a rotation body according to claim 17.

32. (Previously Presented) The printing machine drive according to claim 31, further comprising a control device configured to one or more of a voltage, a strength of a current and a frequency of a current flowing in the at least one stator winding.

33. (Previously Presented) The printing machine drive according to claim 31, further comprising an angle sensor for measuring a rotary position of the rotor.

34. (Previously Presented) A rotation printing machine comprising rubber blanket cylinders and counter printing cylinders that together form printing points, and further comprising plate cylinders which are mechanically coupled in pairs with the rubber blanket cylinders into cylinder groupings, wherein each cylinder grouping is driven by one or more of the plate cylinder, rubber blanket cylinder or the counter printing cylinder including a rotation body according to claim 17.

35. (Previously Presented) The rotation body according to claim 17 wherein the rotation body defines a bearing for a cylinder or a roller of a printing machine.

36. (Currently Amended) A method of driving a cylinder or roller of a printing machine, the method comprising:

providing at least one rotation body comprising:

a stator supported by the printing machine and including at least one stator winding;

and

a rotor including at least one permanent magnet and positioned for rotation relative to the stator, the rotor extending from a first bearing to a second, spaced apart bearing and the at least one permanent magnet provided over substantially all of the area along the longitudinal axis of the rotor between the first and second bearings;

positioning a portion of a first end of the cylinder or roller about the rotor such that the rotor defines a bearing therefore;

positioning a portion of a second end of the cylinder or roller about a secondary bearing;

and

selectively providing current through the stator winding.

37. (New) A rotation assembly for a printing machine, comprising:

a rotation body including a stator including at least one stator winding and a rotor including at least one permanent magnet and positioned for rotation relative to the stator, the rotor extending from a first bearing to a second, spaced apart bearing and the at least one permanent magnet provided over substantially all of the area along the longitudinal axis of the rotor between the first and second bearings, wherein current flowing through the stator winding interacts with the at least one permanent magnet and generates a torque acting on the rotor;

a cylinder body or roller body having opposed first and second ends with the rotor received in and rotatably supporting the first end; and

a secondary bearing element rotatably supporting the second end.

38. (New) The rotation body according to claim 37, wherein the secondary bearing element includes a second rotation body including a second stator including at least one stator winding and a second rotor including at least one permanent magnet and positioned for rotation relative to the second stator, the second rotor extending from a first bearing to a second, spaced apart bearing and the at least one permanent magnet provided over substantially all of the area along the longitudinal axis of the rotor between the first and second bearings, wherein current flowing through the stator winding interacts with the at least one permanent magnet and generates a torque acting on the rotor.